

Fig. 1  
(Prior Art)

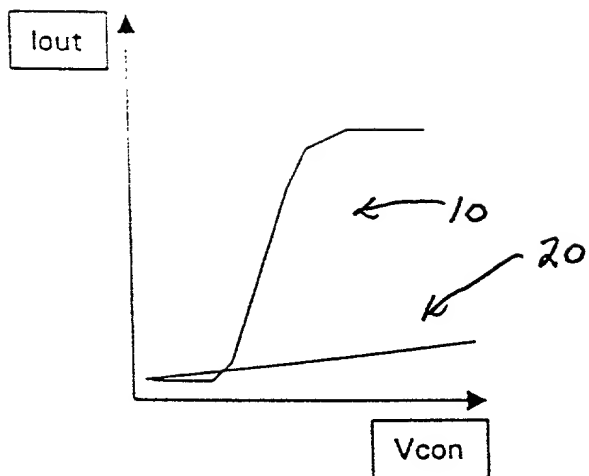


Fig. 2

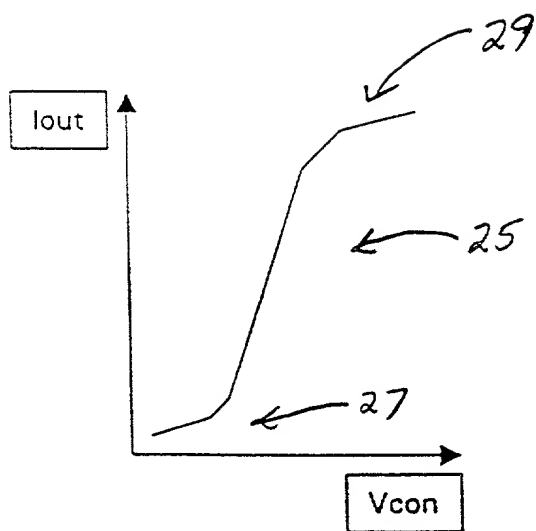


Fig. 3

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Parameter	Value
Age (years)	24.5
Height (cm)	175.0
Weight (kg)	70.0
Body mass index (kg/m <sup>2</sup> )	22.5
Heart rate (b/min)	72
Stroke volume (L)	0.07
Cardiac output (L/min)	5.0
Mean arterial pressure (mmHg)	93
Systemic vascular resistance (dyne/cm <sup>2</sup> )	1100
Pulmonary artery pressure (mmHg)	16
Pulmonary capillary pressure (mmHg)	15
Left ventricular pressure (mmHg)	120
Right ventricular pressure (mmHg)	25
Left atrial pressure (mmHg)	12
Right atrial pressure (mmHg)	8
Left ventricular end-diastolic volume (L)	0.12
Right ventricular end-diastolic volume (L)	0.15
Left ventricular stroke volume (L)	0.07
Right ventricular stroke volume (L)	0.07
Left ventricular ejection fraction (%)	58
Right ventricular ejection fraction (%)	55
Left ventricular mass (g)	180
Right ventricular mass (g)	120
Left atrial mass (g)	80
Right atrial mass (g)	60
Left ventricular wall thickness (cm)	1.2
Right ventricular wall thickness (cm)	0.8
Left atrial wall thickness (cm)	0.5
Right atrial wall thickness (cm)	0.4
Left ventricular compliance (L/mmHg)	0.001
Right ventricular compliance (L/mmHg)	0.002
Left atrial compliance (L/mmHg)	0.001
Right atrial compliance (L/mmHg)	0.001
Left ventricular pressure-volume loop area (J)	1.5
Right ventricular pressure-volume loop area (J)	1.2
Left atrial pressure-volume loop area (J)	0.5
Right atrial pressure-volume loop area (J)	0.4
Left ventricular stroke work (J)	1.5
Right ventricular stroke work (J)	1.2
Left atrial stroke work (J)	0.5
Right atrial stroke work (J)	0.4
Left ventricular power (W)	1.5
Right ventricular power (W)	1.2
Left atrial power (W)	0.5
Right atrial power (W)	0.4
Left ventricular efficiency (%)	25
Right ventricular efficiency (%)	20
Left atrial efficiency (%)	10
Right atrial efficiency (%)	8
Left ventricular oxygen consumption (L/min)	0.05
Right ventricular oxygen consumption (L/min)	0.05
Left atrial oxygen consumption (L/min)	0.02
Right atrial oxygen consumption (L/min)	0.02
Left ventricular oxygen delivery (L/min)	0.05
Right ventricular oxygen delivery (L/min)	0.05
Left atrial oxygen delivery (L/min)	0.02
Right atrial oxygen delivery (L/min)	0.02
Left ventricular oxygen extraction (%)	20
Right ventricular oxygen extraction (%)	20
Left atrial oxygen extraction (%)	10
Right atrial oxygen extraction (%)	8
Left ventricular oxygen reserve (%)	10
Right ventricular oxygen reserve (%)	8
Left atrial oxygen reserve (%)	5
Right atrial oxygen reserve (%)	4
Left ventricular oxygen reserve volume (L)	0.01
Right ventricular oxygen reserve volume (L)	0.01
Left atrial oxygen reserve volume (L)	0.005
Right atrial oxygen reserve volume (L)	0.005
Left ventricular oxygen reserve time (min)	1.0
Right ventricular oxygen reserve time (min)	0.8
Left atrial oxygen reserve time (min)	0.4
Right atrial oxygen reserve time (min)	0.3
Left ventricular oxygen reserve power (W)	1.5
Right ventricular oxygen reserve power (W)	1.2
Left atrial oxygen reserve power (W)	0.5
Right atrial oxygen reserve power (W)	0.4
Left ventricular oxygen reserve efficiency (%)	25
Right ventricular oxygen reserve efficiency (%)	20
Left atrial oxygen reserve efficiency (%)	10
Right atrial oxygen reserve efficiency (%)	8
Left ventricular oxygen reserve compliance (L/mmHg)	0.001
Right ventricular oxygen reserve compliance (L/mmHg)	0.002
Left atrial oxygen reserve compliance (L/mmHg)	0.001
Right atrial oxygen reserve compliance (L/mmHg)	0.001
Left ventricular oxygen reserve pressure-volume loop area (J)	1.5
Right ventricular oxygen reserve pressure-volume loop area (J)	1.2
Left atrial oxygen reserve pressure-volume loop area (J)	0.5
Right atrial oxygen reserve pressure-volume loop area (J)	0.4
Left ventricular oxygen reserve stroke work (J)	1.5
Right ventricular oxygen reserve stroke work (J)	1.2
Left atrial oxygen reserve stroke work (J)	0.5
Right atrial oxygen reserve stroke work (J)	0.4
Left ventricular oxygen reserve power (W)	1.5
Right ventricular oxygen reserve power (W)	1.2
Left atrial oxygen reserve power (W)	0.5
Right atrial oxygen reserve power (W)	0.4
Left ventricular oxygen reserve efficiency (%)	25
Right ventricular oxygen reserve efficiency (%)	20
Left atrial oxygen reserve efficiency (%)	10
Right atrial oxygen reserve efficiency (%)	8
Left ventricular oxygen reserve oxygen consumption (L/min)	0.05
Right ventricular oxygen reserve oxygen consumption (L/min)	0.05
Left atrial oxygen reserve oxygen consumption (L/min)	0.02
Right atrial oxygen reserve oxygen consumption (L/min)	0.02
Left ventricular oxygen reserve oxygen delivery (L/min)	0.05
Right ventricular oxygen reserve oxygen delivery (L/min)	0.05
Left atrial oxygen reserve oxygen delivery (L/min)	0.02
Right atrial oxygen reserve oxygen delivery (L/min)	0.02
Left ventricular oxygen reserve oxygen extraction (%)	20
Right ventricular oxygen reserve oxygen extraction (%)	20
Left atrial oxygen reserve oxygen extraction (%)	10
Right atrial oxygen reserve oxygen extraction (%)	8
Left ventricular oxygen reserve oxygen reserve (%)	10
Right ventricular oxygen reserve oxygen reserve (%)	8
Left atrial oxygen reserve oxygen reserve (%)	5
Right atrial oxygen reserve oxygen reserve (%)	4
Left ventricular oxygen reserve oxygen reserve volume (L)	0.01
Right ventricular oxygen reserve oxygen reserve volume (L)	0.01
Left atrial oxygen reserve oxygen reserve volume (L)	0.005
Right atrial oxygen reserve oxygen reserve volume (L)	0.005
Left ventricular oxygen reserve oxygen reserve time (min)	1.0
Right ventricular oxygen reserve oxygen reserve time (min)	0.8
Left atrial oxygen reserve oxygen reserve time (min)	0.4
Right atrial oxygen reserve oxygen reserve time (min)	0.3
Left ventricular oxygen reserve oxygen reserve power (W)	1.5
Right ventricular oxygen reserve oxygen reserve power (W)	1.2
Left atrial oxygen reserve oxygen reserve power (W)	0.5
Right atrial oxygen reserve oxygen reserve power (W)	0.4
Left ventricular oxygen reserve oxygen reserve efficiency (%)	25
Right ventricular oxygen reserve oxygen reserve efficiency (%)	20
Left atrial oxygen reserve oxygen reserve efficiency (%)	10
Right atrial oxygen reserve oxygen reserve efficiency (%)	8
Left ventricular oxygen reserve oxygen reserve compliance (L/mmHg)	0.001
Right ventricular oxygen reserve oxygen reserve compliance (L/mmHg)	0.002

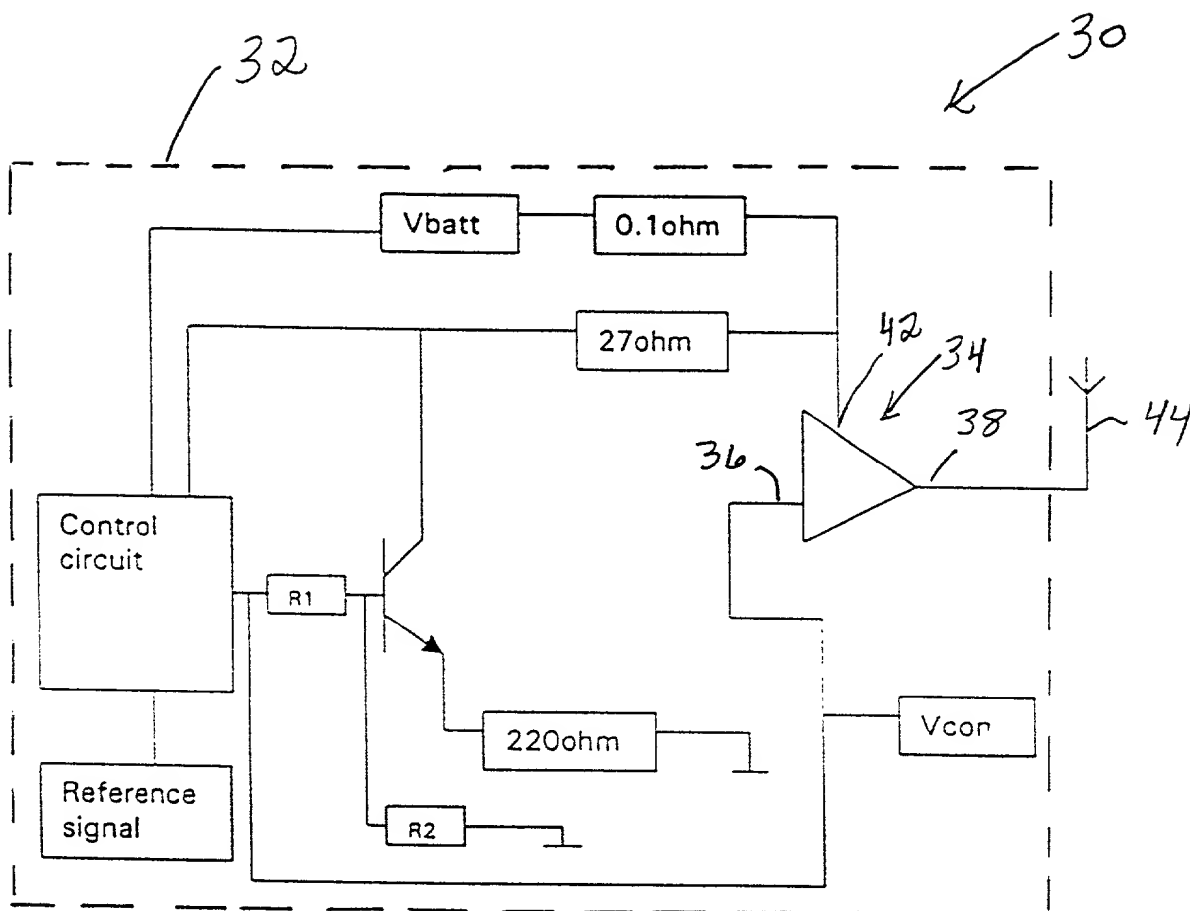


Fig. 4